

Invited Colloquia and Invited Talks at Conferences

1. “Workshop on the High Tc Superconductors”; National Bureau of Standards; October, 1988.
2. “Workshop on Field Theories in Condensed Matter Physics”; Johns Hopkins University; November, 1988.
3. “Conference on the Physics of the High Tc Superconductivity”; Santa Barbara; June, 1989.
4. “International Conference on the Materials and the Mechanisms Superconductivity”; Stanford; September, 1989.
5. “Adriatico Conference on Strongly Correlated Electron Systems”; Trieste, Italy; July, 1990.
6. “Asia-Pacific Physics Conference”; Seoul, Korea; August, 1990.
7. “Summer School on Non-perturbative Methods in Field Theory and Condensed Matter Physics”; Kathmandu, Nepal; May, 1991.
8. “International Conference on Strongly Correlated Systems”; Trieste, Italy; July, 1991.
9. “Workshop on Low Dimensional Correlated Systems”; Trieste, Italy; July, 1991.
10. “Les Houches Summer School on Condensed Matter Physics”; Les Houches, France; August, 1991.
11. “International Conference on Two Dimensional Physics”; Neuchatel, Switzerland; August, 1991.
12. “Workshop on Quantum Phase Transition”; Institute for Theoretical Physics, UC at Santa Barbara; March, 1992.
13. “International Conference on the Frontier of Low Dimensional Condensed Matter Physics”; Beijing, China; June, 1992.
14. “Summer School on Low Dimensional Quantum Field Theories for Condensed Matter Physicists”; Trieste, Italy; August, 1992.
15. “March Meeting of the American Physical Society”; Pittsburgh; March, 1994.
16. “Nordita Summer School on Physics of $2 + 1$ Dimensional Systems”; Spatind, Norway; June, 1994.
17. “Nordita Conference on Physics of $2+1$ Dimensional Systems”; Copenhagen, Denmark; June, 1994.
18. “Euro Conference on the Quantum Hall Effect”; Turino, Italy; June, 1994.

19. "International conference on low dimensional strongly correlated systems"; Nordita, Denmark; June 1995.
20. "First international conference on frontier of physics in 21th century"; Santou, China; August 1995
21. "First Gordon conference on magnetic nano structures"; Irsee, Germany; September 1995.
22. "ITP workshop on Non-fermi liquid in two dimensions"; US Santa Barbara; April 1996.
23. "Conference on low dimensional electron systems"; Oslo, Norway; June 1996.
24. "Yukawa conference on strongly correlated electron systems"; Kyoto, Japan; July 1996.
25. "International conference on materials and mechanisms of superconductivity"; Beijing, China; February 1997.
26. "March meeting of the American Physical Society"; Kansas; March 1997.
27. "April meeting of the American Physical Society"; Washington; April 1997.
28. "Workshop on pseudogap physics of high T_c superconductors"; Chicago; May 1997.
29. "Workshop on transport through electron condensates"; Haifa, Israel; May 1997.
30. "Asian Pacific Center for Theoretical Physics summer school on high T_c superconductivity"; Seoul, Korea; June 1997.
31. "Adriatico Conference on strongly correlated electron systems"; Trieste, Italy; July 1997.
32. "Workshop on quantum phase transitions"; Aspen; July 1997.
33. "International conference on spectroscopy of novel superconductors"; Cape Cod; September 1997.
34. "March meeting of the American Physical Society"; Los Angeles; March 1998.
35. "NATO workshop on the pairing symmetry of high T_c superconductors"; Yalta, Ukraine; April 1998.
36. "Taniguchi Symposium on the physics and chemistry of transition metal oxides"; Japan; May 1998.
37. "Danish Physical Society Meeting"; Nyborg, Denmark; June 1998.
38. "International Conference Stripes 98"; Rome, Italy; June 1998.
39. "Workshop on high T_c superconductivity"; Aspen; July 1998.

40. "Gordon Research Conference on Superconductivity"; Oxford, England; Septemeber 1998.
41. "Canadian Institute for Advanced Research Workshop on Superconductivity"; Banff, Canada; May 1999.
42. "CN Yang Symposium on Symmetries and Reflections"; Stony Brook; May 1999.
43. "Workshop on Theoretical Methods for Strongly Correlated Fermions"; Montreal, Canada; May 1999.
44. "Recent Progress in Many Body Theories"; Seattle, Sept 1999.
45. "Gordon Research Conference on Superconductivity"; Ventura; Feburary 2000.
46. "International conference on materials and mechanisms of superconductivity"; Houston; Feburary 2000.
47. "European Physical Society Meeting"; Montreaux, Switzerland; Feburary 2000.
48. "SO(5) Theory: A Status Report", NEDO Hawaii Meeting on Charge-Spin-Orbital Ordering and Separation: Path to New Electronics; Maui; May 21-23, 2000.
49. "Modern Trends in Condensed Matter Physics"; Tsinghua University, Beijing, China; July 2000.
50. "Third Joint Meeting of Chinese Physicists World Wide"; Hong Kong, China; August 2000.
51. "ITP Conference on High Tc Superconductivity"; Santa Barbara; August 2000.
52. "International Workshop on Transition Metal Oxides"; Sendai, Japan; November 2000.
53. "Matsen Lecture at University of Texas in Austin"; Austin; March 2001.
54. "Sixth International Conference on Spectroscopy of Novel Superconductors"; Chicago; May 2001.
55. "Workshop on Mechanism of High T_c Superconductivity"; Li Jiang, China; June 2001.
56. "Workshop on Flux, Charge, Topology and Statistics"; Amsterdam, Netherland; June 2001.
57. "International Conference on Magnetic Correlations, Metal-Insulator Transitions and Superconductivity in Novel Materials"; Dresden, Germany; July 2001.
58. "Workshop on Low Dimensional Field Theory at work in Condensed Matter"; Capri, Italy; August 2001.
59. "The Fourth International Symposium on Crystalline Organic Metals, Superconductors and Ferromagnets"; Rusutsu, Japan; September 2001.

60. “Workshop in applications of Conformal Field Theory”; UCLA, October 2001.
61. Colloquium at the Institute for Theoretical Physics, UCSB; October 2001.
62. Colloquium at the Oakridge National Lab; November 2001.
63. Colloquium at McMaster University; April 8, 2002.
64. Colloquium at the Perimeter Institute; April 10, 2002.
65. “Quantum vacuum properties in condensed matter physics and cosmology”; Tours, France; May 17-20 2002.
66. “First Beijing forum on the mechanism of high T_c superconductivity”; Beijing; June 13-15 2002.
67. “New developments in high T_c theory”; Hong Kong; June 17-22 2002.
68. “Workshop Information Quantum Spin Collective Phenomena in Condensed Matter Physics”; Leiden, Netherland; August 5-16 2002.
69. “International Conference on Physics and Chemistry of Molecular and Oxide Superconductors”; Hsinchu, Taiwan; August 13-18, 2002.
70. “The 23rd International Conference on Low Temperature Physics”; Hiroshima, Japan; August 20-27, 2002.
71. “Colloquium at the University of British Columbia”; Vancouver, Canada; September 5, 2002.
72. “APCTP-ICTP Joint Conference on Condensed-Matter Physics”; Pohang, Korea; September 25-28, 2002.
73. “NSF Workshop on Opportunities in Materials Theory”; George Town; October 14-16, 2002.
74. “Canadian Institute for Advanced Research Workshop on Quantum Materials”; Lake Harrison, Canada; November 8-10, 2002.
75. “Global Phase Diagram of the $SO(5)$ Model and High T_c Cuprates”; APS March meeting in Austin; March 3-7, 2003.
76. “The four dimensional quantum Hall effect”, The Third International School on Field Theory and Gravitation; Vitoria, Brazil; April 22-25, 2003.
77. “Quantitative test of the $SO(5)$ symmetry in the vortex state of NCCO”, International Workshop on Phase Competition in High T_c Cuprates; Lawrence Berkeley National Lab; May 13-16, 2003.
78. “Dissipationless quantum spin current”, Amsterdam Workshop on Flux, Charge Topology and Statistics; Amsterdam, Netherland; July 1-5, 2003.

79. “Global Phase Diagram of the SO(5) Model and High Tc Cuprates”, WORKSHOP ON COMPETING PHASES IN NOVEL CONDENSED MATTER SYSTEMS; Würzburg, Germany; July 9-11, 2003.
80. “Higher dimensional quantum Hall effects and their experimental realization”, Hidden Symmetries in Strongly Correlated Electron Systems and Low Dimensional Field Theories; London, United Kingdom; July 8-12, 2003.
81. “Dissipationless quantum spin current”, First Joint COSLAB - VORTEX - BEC2000+ Workshop; Bilbao, Spain; July 10-16, 2003.
82. “Dissipationless quantum spin current”, Colloquium at UC Santa Cruz; October 23, 2003.
83. “Dissipationless quantum spin current”, Colloquium at Caltech; October 30, 2003.
84. “Dissipationless quantum spin current at room temperature”, FOM conference of the Dutch Physical Society; Veldhoven, Netherland; Dec 16-17, 2003.
85. “Dissipationless quantum spin current at room temperature”, Aspen Winter Conference on Spins in Nanostructures: From Atoms and Quantum dots to Magnets; Aspen; January 4 - 10, 2004.
86. “Dissipationless quantum spin current at room temperature”, Spins, Charges and Topology in Low Dimensions, First workshop of the Pacific Institute for Theoretical Physics; Vancouver, Jan 31-Feb 1, 2004.
87. “To see a world in a grain of sand”, Colloquium at UC Riverside; Feb 26, 2004.
88. “Dissipationless quantum spin current at room temperature”, International Spring School on Particles and Fields; Tsinghsu, Taiwan, March 30-April 4, 2004.
89. “The global phase diagram of high Tc cuprates”, Workshop on the Physics of Strongly Correlated Electron Systems; Oakridge National Labs, April 16-17, 2004.
90. “Dissipationless quantum spin current at room temperature”, The second Asia-Pacific Physics Workshop: Frontier in Condensed Matter; Hong Kong, June 21-24, 2004.
91. “Dissipationless quantum spin current at room temperature”, International Conference on Physics Education and Frontier Research; Shanghai, China, June 28-July 2, 2004.
92. “Symmetry and phases in cold atomic and condensed matter systems”, Boulder Summer School on Quantum Coherence in Atomic and Condensed Matter Systems, Boulder, July 5-30, 2004.
93. “Dissipationless quantum spin current at room temperature”, 12th International Conference on Recent Progress in Many-Body Theories, Santa Fe, August 22-27, 2004.
94. “Global phase diagram of the high Tc cuprates”, Gordon Conference on Superconductivity, Oxford, England, September 19-24, 2004.

95. "The pair-density-wave state of high Tc cuprates", Quantum Phenomena in Complex Electronic Matter, Rome, Italy, September 26- October 2, 2004.
96. "Global phase diagram of the high Tc cuprates", Colloquium, UCSD, San Diego, October 7, 2004.
97. "The hole pair checkerboard state of the high Tc cuprates", Aspen Winter Conference on High Temperature Superconductivity, Aspen, January 9-15, 2005.
98. "Dissipationless spin current and the intrinsic spin Hall effect", Colloquium at UC Santa Barbara, Santa Barbara, March 8, 2005.
99. "Quantum Hall effect in higher dimensions", Workshop on Higher Dimensional Quantum Hall Effect, Chern-Simons Theory and Non-commutative Geometry, Trieste, Italy, March 1-4, 2005.
100. "The new spin on semiconductors", Keynote speech at Semicon 2005, Shanghai, China, March 14-17, 2005.
101. "Dissipationless spin current and the intrinsic spin Hall effect", Invited talk at the APS March Meeting symposium on Spin Hall Effect, Los Angeles, March 21-25, 2005.
102. "Spin Hall effect", Invited talk at the conference on "Novel Quantum Phenomena in Emergent Materials", Beijing, China, May 27-30, 2005.
103. "Spin Hall effect", Invited talk at the workshop on "Quantum charge and spin transport", Beijing, China, May 30- June 3, 2005.
104. "Spin Hall effect", Invited talk at the Annual Conference of the Physical Society of Hong Kong; Hong Kong, China; June 4, 2005.
105. "The pair density wave state of the high Tc cuprate", Invited talk at the Workshop on Complexity in Oxides, Santa Barbara; July 11-15, 2005.
106. "Spin Hall effect", Invited talk at the International Symposium on Spintronics; Banff, Canada; July 24-27, 2005.
107. "Spin Hall effect", Invited talk at the Workshop on Complex Behavior in Correlated Electron Systems; Leiden, Netherland; Aug 1-7, 2005.
108. "The intrinsic and the quantum Spin Hall effect", Invited talk at the APCTP Workshop on Semiconductor Nano-Spintronics: Spin-Hall Effect and Related Issues; Pohang, Korea; Aug 8-11, 2005.
109. "The Spin Hall effect", Invited talk at the The First Conference of China-UK Consortium for Spintronics; Beijing, China, Oct 15-17, 2005.
110. "The Spin Hall effect", Invited talk at the Sapporo Autumn School; Sapporo, Japan, Oct 26-28, 2005.

111. "The sign problem of quantum Monte Carlo simulations", Invited talk at the Mini-workshop on Strongly Correlated Electron Systems; Hong Kong, China, Nov 4-5, 2005.
112. "The quantum spin Hall effect", Invited talk at the NEDO workshop on funactional oxides; Kona, Hawaii, Nov 25-27, 2005.
113. "The quantum spin Hall effect", Invited talk at the International Conference on Recent Progress in Quantum Mechanics and Its Applications; Hong Kong, China, Dec 12-16, 2005.
114. "The spin Hall effect", Invited talk at the Workshop on mesoscopic and spin physics; Hsinchu, Taiwan, Jan 5-7, 2006.
115. "The spin Hall effect", Invited talk at the Conference on the Frontiers of Quantum Nanoscience; Noosa Heads, Australia, Jan 23-27, 2006.
116. "Chern numbers and Chern-Simons terms in physics", Invited talk at the Texas Geometry and Topology Conference, Houston, Feb 18-19, 2006.
117. "The spin Hall effect", Invited talk at the IBM-Stanford SpinAps Conference, San Jose, March 18-19, 2006.
118. "The quantum spin Hall effect", Invited talk at the Spintronics Workshop, KITP at UCSB, March 30, 2006.
119. "The spin Hall effect", Invited colloquium at UC Davis, Davis, April 10, 2006.
120. "The new spin of semiconductors", Invited colloquium at Fudan University, Shanghai, China, April 18, 2006.
121. "The spin Hall effect", Invited talk at the International Workshop on Spintronics, Singapore, May 8-12, 2006.
122. "The persistent spin helix", Invited talk at the International Workshop on Quantum Control, Shanghai, China, June 1-3, 2006.
123. "Nano-helix based quantum transistor, charge pump and motor", Invited talk at the International Workshop on Quantum Structures, Hangzhou, China, June 7-10, 2006.
124. "The spin Hall effect", Invited talk at the US-France Workshop on Spintronics, Grenoble, France, June 19-20, 2006.
125. "The spin Hall effect", Invited talk at the Les Houches Summer School on Quantum Magnetism, Les Houches, France, June 21-23, 2006.
126. "The persistent spin helix", Invited talk at the International Conference of the OCPA, Taiwan, June 27-30, 2006.
127. "The global phase diagram of the high Tc cuprates", Invited talk at the International Conference on the Materials and the Mechanisms of Superconductivity, Dresden, Germany, July 10-14, 2006.

128. “Recent developments in Spintronics”, Invited talk at the International Conference on Spin, Charge and Topology, Banff, Canada, July 29 - Aug 3, 2006.
129. “Nano-helix based quantum transistor, charge pump and motor”, Invited talk at the International Conference on Foundations of Quantum Mechanics, Hangzhou, China, Aug 25-28, 2006.
130. “Quantum spin Hall effect in HgTe”, Invited talk at the Workshop on spintronics, Li Jiang, Aug 28-30, 2006.
131. “Quantum spin Hall effect in HgTe”, Invited talk at the CNSI Workshop Theory of Advanced Materials for Nanoscience, Santa Barbara, Oct 8, 2006.
132. “Global phase diagram of the cuprate superconductors”, Invited talk at the Workshop on Electronic States and Disorder Effect in Cuprate Superconductors, Beijing, China, Nov 6-11, 2006.
133. “Quantum spin Hall effect in HgTe”, Invited talk at the Forum in Condensed Matter Physics: Past, Present, and Future , Hong Kong, China, Dec 18-20, 2006.
134. “Quantum spin Hall effect in HgTe”, Invited talk at the Aspen Winter Conference on Spins in Nano-structures, Aspen, Jan 14-19, 2007.
135. “Quantum spin Hall effect in HgTe”, Invited talk at the Fena workshop on spintronics, Los Angeles, Jan 18, 2007.
136. “The pair density wave state of the high Tc cuprates”, Invited talk at the 6th Asia-Pacific Workshop on the Frontier of Condensed Matter Science, Taiwan, April 13-16, 2007.
137. “The quantum spin Hall effect”, Invited talk at the workshop on the electric and magnetic properties of II-VI-semiconductors, Wuerzburg, Germany, July 6, 2007.
138. “The quantum spin Hall effect”, Invited talk at the workshop on Spin-Hall Effect and Spin-transport-related Phenomena, Weihai, China, August 6-8, 2007.
139. “The quantum spin Hall effect”, Invited talk at the Lorentz center workshop on condensed matter meets gravity, Leiden, Netherland, August 27-31, 2007.
140. “The quantum spin Hall effect”, Invited talk at the Nordita workshop on quantum fluids, Stockholm, Sweden, September 3-7, 2007.
141. “The quantum spin Hall effect”, Invited colloquium at the University of Stockholm, Stockholm, Sweden, September 6, 2007.
142. “The quantum spin Hall effect”, Invited colloquium at the Florida State University, Tallahassee, September 13, 2007.
143. “The quantum spin Hall effect”, Invited colloquium at the University of California in San Diego, San Diego, October 4, 2007.

144. “The quantum spin Hall effect”, Invited talk at the conference on the frontiers of statistical physics, high energy, condensed matter and mathematical physics, Singapore, October 31-November 3, 2007.
145. “The quantum spin Hall effect”, Invited talk at the conference on quantum manipulation, Shanghai, China, December 7-8, 2007.
146. “The quantum spin Hall effect”, Invited talk at the Forum on the Frontiers in Condensed Matter, Hong Kong, China, December 14-16, 2007.
147. “The quantum spin Hall effect”, Invited colloquium at the University of California at Los Angeles, Los Angeles, January 31, 2008.
148. “The quantum spin Hall effect”, Invited colloquium at the University of Southern California, Los Angeles, February 4, 2008.
149. “The quantum spin Hall effect”, Invited colloquium at the Los Alamos National Lab, Los Alamos, April 3, 2008.